

Abstract

A partially redundant, contactless pedal-travel sensor (1) is used for controlling a vehicle. This pedal travel sensor (1) generates at least two redundant signals (S1, S2) using a
5 contactless sensor (4) and an electronic circuit (5). These signals are fed to a control and/or regulating unit (3), where they are subjected to a plausibility check to detect a faulty pedal-travel sensor (1). To improve safety during a failure of a pedal-travel sensor (1) and to improve the diagnostic options, it is provided that a specific position of the pedal is detected by a switch (2) and a signal (S3) is generated by the switch (2). Then a plausibility
10 comparison of the signal (S3) generated by the switch with the signals (S1, S2) generated by the pedal-travel sensor is performed.

(Figure 2)